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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,690	01/05/2006	Enzo Ruscio	NOTAR-029US	2953
7590 02/10/2009 Kit M Stetina			EXAMINER	
Stetina Brunda Garred & Brucker			KASTLER, SCOTT R	
75 Enterprise Suite 250			ART UNIT	PAPER NUMBER
Aliso Viejo, CA 92656			1793	
			NAME DAME	DET WEDVILONE
			MAIL DATE 02/10/2009	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/563,690 RUSCIO ET AL. Office Action Summary Examiner Art Unit Scott Kastler 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 1/5/2006

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Art Unit: 1793

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shyer in view of Satchell, Jr et al. Shver teaches a burner/lance arrangement in the figures for example, with a hollow body, an internal tube or pipe for injecting oxygen and a flame shroud from a second surrounding pipe with separate openings from it's burner portion and a head with at least one nozzle where the burner/lance is employed for injecting oxygen with high velocity (see paragraph [0063] for example). Shver further discloses a particle injector for injecting carbon set underneath the burner (see fig. 10 and paragraph [0066] for example), thereby showing all aspects of the above claims except the use of a Laval (converging/diverging) shaped nozzle with an oblong cross section of various recited configurations or the use of three injectors for injection of gas rather than the single injector of Shver. Satchell, Jr. et al teaches that for the operation of a burner lance within a furnace environment at high velocities, in order to improve burner and combustion properties and control, it was known in the art at the time the invention was made to employ a Laval type nozzle with an oblong cross section (see the claims for example). Absent any demonstrated new or unexpected results shown to arise therefrom, motivation to alter the configuration of such a Laval nozzle with a general oblong cross section to any equally useful configuration within these broad requirements would have been a modification obvious to one of

Application/Control Number: 10/563,690

Art Unit: 1793

ordinary skill in the art at the time the invention was made since it has been well settled that alteration of the shape or configuration of a component without materially altering it's operation would have been an obvious modification (see MPEP 2144.04 IV C). Further, use of a plurality of injectors rather than the single injector disclosed by Shver in order to increase the delivered gas would also have been a obvious modification to one of ordinary skill in the art at the time the invention was made since multiplication of a part in order to multiply the part's effect has also been held to be an obvious modification (see MPEP 2144.04 VI B). Since Shver specifically desires the production of a high velocity flame with a controlled configuration, motivation to employ the nozzle structure disclosed by Satchell, Jr. et al of Laval shape with an oblong cross section as the nozzle of Shver would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/563,690 Page 4

Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Scott Kastler/ Primary Examiner, Art Unit 1793

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